



MD. SHAHBAZ ANSARI

Software Development Engineer

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	M.TECH Dual Degree (Mining)	IIT Kharagpur	7.74/10
2017	SSCE	SAM Sec School, Biharsharif	78.8%
2015	SSE	TATA DAV School, Jamadoba, Dhanbad	10/10

WORK EXPERIENCE

SOFTWARE DEVELOPER (Backend) | INNOVACER ANALYTICS PVT. LTD.

JULY'22 – APRIL'23

- Worked on developing healthcare outreach solutions using **Django** and **PostgreSQL**
- Integrated with another project to fetch patient data for our outreach service for the marketing-campaign
- Worked on different **micro-services** of the project to develop **REST APIs** at the production level using Django, django rest framework, and understand code with different workflows of the product
- Wrote health checks & unit test cases and increased the test coverage of **6.6k lines of code** from **64** to **80%**
- Made Microsoft Power Automate (**MS-flow**) updates that are used to create and automate workflows and tasks across the product's multiple micro-services

INTERNSHIPS

DATA SCIENCE INTERN | INDIAN SCHOOL OF BUSINESS, HYDERABAD

MAY'21 – JULY'21

Objective: To estimate the scale and extent of crop diversification in Indian agriculture using a dashboard

- Analyzed data from **Agriculture Census of India** (2010-11 & 2015-16) at tehsil level with over **40** parameters
- Preprocessed the data by merging it with the **shapefile** based on unique LGD codes and mapping tehsils with null LGD codes by a **fuzzy match** of above **95%** with the block & village names from the LGD codebook file
- Visualized data with the help of choropleth maps using **Altair** library to gain insights
- Created a **dashboard** using **Streamlit** framework to compare year-wise data for crop & non-crop types
- Added **dropdowns** for selection of different parameters, social groups, land holding size classes & others

PROJECTS

TEXT CLASSIFICATION OF BLOGS INTO POPULAR AND NON-POPULAR | SELF-PROJECT

DEC'19 – FEB'20

- Applied text mining methods on New York times blog articles by text clearing tools using **NLTK**
- Used feature Engineering techniques like **TF-IDF** & **n-grams** to score the importance of frequent terms
- Devised decision tree algorithm to predict the popularity of NYT blog articles with an accuracy of **86.4%**

E-COMMERCE CUSTOMER REVIEWS PREDICTION | SELF-PROJECT

MAY'19 – JULY'19

- Predicted customer reviews of various types of products on Amazon and Flipkart sites using linear graphs
- Scraped Amazon & Flipkart sites to get the customer IDs, their reviews, and ratings using **BeautifulSoup** package
- Tokenized the text and applied **sentiment analysis** to know whether review is positive or negative using **NLTK**
- Applied **Doc2Vec** model on reviews & used random forest classifier for prediction which gave **89%** accuracy

SKILLS EXTRACTION FROM UNSTRUCTURED TEXT | B.TECH THESIS PROJECT | IIT KHARAGPUR

SEP'20 – NOV'20

- Extracted **occupation description** text from National Classification of Occupation 2015 using **PyPDF2** library
- Applied skill extractor objects for skills extraction and trained an embedding model using **Skills-ML** library

SKILLS AND EXPERTISE

Backend:	Microservices, RESTful APIs, Django Rest Framework, TDD, PostgreSQL, GitLab, S3
Programming:	C/C++, Python, Java, HTML, CSS, Javascript
Softwares:	Linux, VS Code, Dbeaver, Postman, MS-Office, MS Power Automate

AWARDS AND ACHIEVEMENTS

- Participated & qualified Indian National Physics Olympiad (**INPhO**) 2016 being placed in the statewide **top 1%**
- Participated and qualified Indian National Astronomy Olympiad (**INAO**) in 2016 being placed in **top 1%**

EXTRA CURRICULAR ACTIVITIES

- Member of National Sports Organization Health & Fitness to spread awareness towards a healthy lifestyle.
- Member of RP Hall team to successfully conduct illumination to make artistic figures winning Gold in 2017
- Part of the Case Study team of RP Hall of Residence for Inter Hall General Championships 2019.